

Abstract of the Disclosure:

A fiber-reinforced composite ceramic has a matrix containing SiC and/or Si with a density of greater than 2.5 g/cm^3 and an elongation at break of more than 0.3%. A method for fabricating the composite ceramic includes producing a blend containing carbon fibers, carbonizable bonding resin and additional carbon material which has a raw density in a range between 0.7 and 1.8 g/cm^3 , pressing the blend into a fiber-reinforced green body, carbonizing the green body in order to produce a C/C body, and infiltrating the C/C body with a silicon melt. The fabricated composite ceramic is used as a lining material or armor plating, or for producing reflective surfaces.

LAG/nt